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PRECISION MEASUREMENT EQUIPMENT CAREER LADDER, AFSC'S 32430, 32--ETC(U)
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9 OCCUPATIONAL SURVEY REPORT, 2



6 PRECISION MEASUREMENT EQUIPMENT CAREER LADDER,
AFSC'S 32430, 32450, 32470 AND 32490.

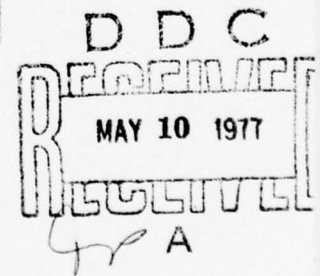
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SUMMARY OF RESULTS

In 1976, a 2-1/2 month survey was made of

1. The Precision Measuring Equipment (PME) Career Ladder (AFS 324X0) was surveyed between 30 August 1976 and 12 November 1976. The sample included 1,395 respondents representing approximately 68 percent of the assigned manning of this career ladder.
2. Twenty-eight job types and clusters were identified. The largest cluster contains 359 members who spend the greatest amounts of their time performing tasks related to repairing electronics PME (16 percent); electronically aligning or adjusting PME (16 percent); calibrating, certifying frequency measuring and generating equipment (14 percent); and performing general PME functions (10 percent). This cluster comprises 26 percent of the survey sample.
3. Analysis, repair, alignment, calibrating and certification tasks are performed on many dissimilar types of equipment involving various categories of technical knowledge and skill, such as, electronic, microwave, waveform, radiac, and electro-mechanical-dimensional. Relatively few (22) tasks are performed by more than 67 percent of DAFSC 32450 job incumbents. The small number of tasks performed by high percentages of 5-skill level respondents, and the generally low difficulty index on these tasks, indicates a lack of job structure uniformity in the career ladder. While restructuring the specialty does not seem essential, Special Experience Identifiers (SEI's) appear desirable for microwave, radiac and electro-mechanical-dimensional equipment.
4. AFM 39-1 Specialty Descriptions are sufficiently broad in scope to cover the technical tasks performed by AFS 324X0 incumbents.
5. There were only minor differences in task performance between 5-skill level personnel stationed in CONUS and those stationed overseas. The task showing the greatest difference involves removing or installing solid state components. Seventy-two percent of CONUS and 84 percent of overseas personnel perform this task.
6. The Specialty Training Standard (STS) generally covers the types of duties and tasks performed in the field. However, there are some tasks coded 2b at the course level which are performed by less than 30 percent of DAFSC 324X0 personnel in their first job assignment (10-24 months AFMS).
7. Survey respondents indicated greater job interest and higher perceived utilization of talents and training than the combined responses from job incumbents in a sample of career ladders surveyed during 1976. Reenlistment intentions expressed by DAFSC 324X0 job incumbents were not favorable and did not compare well with intentions reported by personnel in the sample of ladders surveyed during 1976 or with the actual reenlistment rate for all Air Force ladders.

PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Precision Measuring Equipment Career Ladder, (AFSC's 32430, 32450, 32470, and 32490). The project was directed by USAF Program Technical Training, Volume 2, dated 1 July 1975. Authority for conducting specialty surveys is contained in AFR 35-2. Computer outputs from which this report was written are available for use by operating and training officials.

The survey instrument was developed by Mr. Reginald G. Nolte, Inventory Development Specialist. Mr. Thomas P. Jones analyzed the survey data and wrote the final report. This report has been reviewed and approved by Mr. Paul N. DiTullio, Chief, Maintenance Career Ladders Analysis Section, USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

Computer programs for analyzing the occupational data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Because volume reproduction of this report is not feasible, distribution is made on a loan basis to air staff sections and major commands upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

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OCCUPATIONAL SURVEY REPORT
PRECISION MEASUREMENT EQUIPMENT CAREER LADDER
(AFSC'S 32430, 32450, 32470 AND 32490)

INTRODUCTION

This is a report of an occupational survey of the Precision Measurement Equipment Career Ladder, (AFSC'S 32430, 32450, 32470 and 32490) conducted by the Occupational Survey Branch, USAF Occupational Measurement Center.

The report describes: (1) development and administration of the survey instrument; (2) summaries of tasks performed by airmen grouped by skill level, experience level, and similarity of tasks performed; (3) comparisons with current training and career field structure documents; and (4) conclusions.

INVENTORY DEVELOPMENT AND ADMINISTRATION

The data collection instrument for the occupational survey was USAF Job Inventory AFPT 90-324-127. The inventory booklets were composed of two parts: a background information section in which job incumbents provided information about themselves; and a duty-task list section which assessed the relative amount of time spent on tasks performed by personnel in their current jobs. The latter section consisted of 701 tasks grouped under 20 headings. Thorough research of publications and directives, personal interviews with 14 subject-matter specialists at three bases, and written reviews from 51 experienced Precision Measurement Equipment personnel contributed to the development of the survey instrument.

Consolidated base personnel offices in operational units worldwide received the inventory booklets for administration to job incumbents holding the DAFSC'S identified above. Survey administration occurred from 30 August 1976 through 12 November 1976 based upon the 1 July 1976 Uniform Airman Record. Table 1 gives the distribution of assigned personnel in the career ladder as of July 1976 and the percentage by major command of inventory booklets returned from the field. The sample of 1,395 incumbents represents 68 percent of career ladder members.

After supplying identification and biographical information, incumbents checked and rated the tasks performed in their current job. Tasks were rated on a 9-point scale showing relative time spent on

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each task compared to all other tasks performed in the current job. The ratings ranged from 1 (very-small-amount time spent) through 5 (about-average time spent) to 9 (very-large-amount time spent). Respondents did not rate tasks not performed in their current job.

In the development of the job inventory, every effort was made to include all duties and tasks of importance to the accuracy and completeness of the survey. However, due to the possibility of inadvertent omissions, instructions for completing the inventory urged respondents to write in any duties or tasks not listed. In this survey, the following types of tasks were written in by three or more respondents:

- a. Perform quality assurance inspection in all areas and on all types of PME.
- b. Maintain and/or monitor technical order library.
- c. Serve as supply monitor and/or Equipment Authorization Inventory Data (EAID) account custodian.
- d. Calibrate, certify, electronically align, adjust mechanically and repair TTU205C/E equipment.
- e. Attend training courses or briefings for non-job related activities, such as, Human Relations and Drug Abuse.
- f. Attend staff and safety meetings and/or read safety literature.
- g. Calibrate and certify HP2100 computer.
- h. Coordinate and resolve customer problems with PME.

TABLE 1
COMMAND REPRESENTATION IN THE SURVEY SAMPLE

<u>COMMAND</u>	<u>PERCENT OF PERSONNEL ASSIGNED COMMANDS</u>	<u>PERCENT OF SURVEY SAMPLE BY COMMAND</u>
SAC	21	21
TAC	16	18
ATC	13	14
MAC	11	13
USAFE	15	13
AFSC	4	5
PACAF	8	5
USAFSS	3	4
ADC	3	3
AAC	3	1
OTHERS	3	3

SUMMARY OF BACKGROUND INFORMATION

A section for background data is included in each USAF Job Inventory. Survey respondents are requested to provide biographical information and report their feelings and perceptions of their jobs in this section. Table 2 summarizes the background data collected relative to job interest, perceived utilization of talents, perceived utilization of training and reenlistment intentions. The table presents the data for the first enlistment (0-48 months AFMS) group and the career (49 or more months AFMS) group. For comparisons with other Air Force personnel the table also summarizes data collected on other career ladders surveyed during 1976.

In the areas of job interest, perceived utilization of talents, and perceived utilization of training, the data for this survey are considerably more favorable than those of the combined figures for the sample of career ladders surveyed in 1976. However, the data for reenlistment intentions are much less favorable. These comparisons apply to both the first enlistment group and the career group.

A full explanation is not readily apparent for the favorable responses of high percentages of respondents in DAFSC 324X0 relative to job interest and perceived use of talents and training. However, it is possible that the difficulty, complexity, and variety of tasks involved in working on precision measurement equipment provide a greater challenge and satisfaction than those of the sample of career ladders surveyed during 1976. No explanation is offered for the lower percentage of DAFSC 324X0 incumbents who plan to reenlist. Actual reenlistment figures for FY76 provided by MPC, Randolph AFB, for first term airmen are 26.4 percent for AFS 324X0 versus 37.3 percent for all Air Force specialties combined.

TABLE 2

JOB INTEREST, UTILIZATION OF TALENTS AND TRAINING AND REENLISTMENT
INTENTION FOR FIRST ENLISTMENT AND CAREER PERSONNEL IN PERCENT MEMBERS RESPONDING

	MONTHS OF SERVICE			
	324X0		COMBINED CAREER LADDERS SURVEYED DURING 1976	
	0-48	49-240+	0-48	49-240+
<u>JOB INTEREST</u>				
I FIND MY JOB:				
DULL	8	5	17	9
SO-SO	11	8	18	11
INTERESTING	81	87	65	80
<u>PERCEIVED UTILIZATION OF TALENTS</u>				
MY JOB UTILIZES MY TALENTS:				
VERY LITTLE OR NOT AT ALL	15	8	29	15
FAIRLY WELL OR BETTER	85	92	71	85
<u>PERCEIVED UTILIZATION OF TRAINING</u>				
MY JOB UTILIZES MY TRAINING:				
VERY LITTLE OR NOT AT ALL	12	9	21	17
FAIRLY WELL OR BETTER	88	91	79	83
<u>REENLISTMENT INTENTIONS</u>				
NO OR PROBABLY NO	68	45	57	27
YES OR PROBABLY YES	32	55	43	73

CAREER LADDER STRUCTURE

The job structure of the Precision Measuring Equipment (PME) Career Ladder, (AFS 324X0), was determined on the basis of similarity of the tasks performed and the time spent on tasks by respondents to the survey. In the process of career ladder structure analysis the computer compares tasks performed and the time spent on the tasks by each person in the survey sample. Individuals with the greatest similarity in job performance are grouped together. Groups with the highest degree of overlap form job types; similar job types are combined into clusters. The 28 job types and clusters which form the Precision Measuring Equipment Career Ladder structure are depicted in a hierarchical grouping in Figure 1. These job types and clusters are listed below by group number, the kind of group, functional title and number of members in the group. A detailed description of background characteristics and representative tasks for each group is presented in Appendix A.

PME Calibration/Certification/Alignment/Repair/Supervision

GRP298 (CLUSTER)	= DC - LOW FREQUENCY AC AND K8 CONSOLE SPECIALIST (N=63)
GRP358 (JOB TYPE)	= DC - LOW FREQUENCY AC AND K1 VOLTAGE CURRENT POWER SUPERVISOR (N=7)
GRP329 (CLUSTER)	= DC - LOW FREQUENCY AC AND K1 VOLTAGE CURRENT POWER SPECIALIST (N=84)
GRP373 (JOB TYPE)	= GENERAL PME, ELECTRONIC PME REPAIR AND VOLTAGE/CURRENT/POWER STANDARDS SPECIALIST (N=7)
GRP315 (JOB TYPE)	= ELECTRONIC PME REPAIR/CALIBRATION/CERTIFICATION/ALIGNMENT SPECIALIST (N=6)
GRP185 (JOB TYPE)	= VOLTAGE/CURRENT/POWER CALIBRATION AND ELECTRONIC PME REPAIR SPECIALIST (N=20)
GRP336 (CLUSTER)	= WAVEFORM ANALYSIS/TIME FREQUENCY AND K3 FREQUENCY SPECIALIST (N=66)
GRP259 (JOB TYPE)	= ELECTRONIC PME MINOR MAINTENANCE SPECIALIST (N=8)
GRP262 (JOB TYPE)	= AVIONICS TEST SETS, MICROWAVE AND MISCELLANEOUS ELECTRONIC PME SPECIALIST (N=11)
GRP241 (JOB TYPE)	= FREQUENCY MEASURING AND GENERATING CALIBRATION/CERTIFICATION AND ELECTRONIC PME REPAIR SPECIALIST (N=13)
GRP222 (CLUSTER)	= ELECTRONIC PME REPAIR, FREQUENCY MEASURING AND GENERATING CALIBRATION/CERTIFICATION SPECIALIST/SUPERVISOR (N=359)
GRP362 (CLUSTER)	= ELECTRO-MECHANICAL-DIMENSIONAL TEST EQUIPMENT AND GENERAL ELECTRONIC PME SPECIALIST (N=38)
GRP216 (JOB TYPE)	= ELECTRONIC/GENERAL PME REPAIR AND ELECTRO-MECHANICAL-DIMENSIONAL TEST EQUIPMENT CALIBRATION SPECIALIST (N=13)
GRP166 (JOB TYPE)	= FREQUENCY/MICROWAVE MEASURING AND GENERATING EQUIPMENT CALIBRATING/CERTIFICATION SPECIALIST (N=5)

GRP147 (CLUSTER) = PME LABORATORY SUPERVISOR/NCOIC AND GENERAL
 PME TECHNICIAN (N=27)
 GRP203 (JOB TYPE) = MICROWAVE MEASURING AND GENERATING CALIBRATION/
 CERTIFICATION AND ELECTRONIC PME REPAIR
 SPECIALIST (N=11)
 GRP105 (JOB TYPE) = VOLTAGE/CURRENT/POWER STANDARDS AND ELECTRO-
 MECHANICAL-DIMENSIONAL TEST EQUIPMENT SPECIALIST
 (N=8)
 GRP338 (CLUSTER) = ELECTRO-MECHANICAL-DIMENSIONAL TEST EQUIPMENT AND
 GENERAL PME REPAIR SPECIALIST (N=66)
 GRP240 (JOB TYPE) = ELECTRO-MECHANICAL-DIMENSIONAL TEST EQUIPMENT
 SPECIALIST (N=12)
 GRP234 (JOB TYPE) = VOLTAGE, CURRENT, POWER STANDARDS, AND
 EQUIPMENT SPECIALIST (N=5)
 GRP171 (JOB TYPE) = WAVEFORM EQUIPMENT CALIBRATION AND ELECTRONIC
 ALIGNMENT/REPAIR SPECIALIST (N=7)
 GRP131 (JOB TYPE) = WAVEFORM ANALYZING EQUIPMENT SPECIALIST (N=6)

PME Laboratory Chiefs

GRP167 (CLUSTER) = PME LABORATORY CHIEF/SUPERINTENDENT (N=153)

Quality Assurance Inspectors

GRP405 (JOB TYPE) = PME LABORATORY EVALUATOR/INSPECTOR (N=8)
 GRP238 (CLUSTER) = QUALITY ASSURANCE INSPECTOR/SUPERVISOR AND
 GENERAL PME SPECIALIST (N=23)
 GRP207 (CLUSTER) = QUALITY ASSURANCE INSPECTOR/SUPERVISOR (N=20)

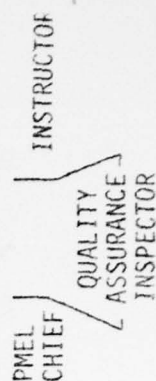
Instructors

GRP106 (CLUSTER) = INSTRUCTOR/METROLOGY SPECIALIST (N=48)
 GRP155 (CLUSTER) = CLASSROOM INSTRUCTOR (N=26)

The 28 job types and clusters listed above account for 80 percent of the survey sample. The other 20 percent did not fall within these 28 groups due to lack of similarities in task performance. Although there is considerable specialization by type of equipment supported, there is, however, very little pure specialization on only one type of equipment. Most jobs involve work on other equipment in addition to the area of specialization. For example, most jobs include substantial amounts of time for repairing electronic PME even though primary specialization may be on other equipment such as electro-mechanical-dimensional equipment.

In addition, due to the wide variety and complexity of the equipment worked on by incumbents in this career ladder, several specialized advanced courses are offered at the Lowry Technical Training Center. Since PME Laboratory personnel tend to specialize in several areas (such as, microwave, waveform, electro-mechanical-dimensional), the assignment of SEI's could be highly useful in identifying the particular qualifications of PME Laboratory incumbents.

FIGURE 7



ANALYSIS OF AFM 39-1 JOB DESCRIPTIONS AND DAFSC GROUPS

Analysis of AFM 39-1 Job Descriptions

In the analysis of DAFSC groups comparisons were made between the job descriptions compiled from survey data and the specialty descriptions in AFM 39-1 for DAFSC's 32430, 32450, 32470 and 32490. The comparisons indicate that the AFM 39-1 Specialty Descriptions contain statements of responsibility which are sufficiently broad in scope that all technical tasks performed by significant percentages of DAFSC 324X0 personnel are covered.

Analysis of DAFSC Groups

Table 3 shows the average amounts of time spent by DAFSC 32450 personnel on tasks from the job inventory duties. Repairing Electronic Precision Measuring Equipment (PME), Duty Q, accounts for the greatest amount of time (16 percent) spent by DAFSC 32450 job incumbents. Performing General PME Functions, Duty T, consumed 12 percent of this group's time. Electronically Aligning or Adjusting PME, Duty N, required 10 percent of the duty time of the 5-skill level incumbents. These three duties, however, account for only 38 percent of the working time of the 5-skill level personnel. The balance of their time, as a group, is spread over tasks from a wide variety of the job inventory duties.

Table 4 list tasks which are performed by large percentages of the same group of DAFSC 30450 job incumbents. Only 22 tasks are performed by 67 percent or more of the 5-skill level personnel. Most of these 22 tasks are comparatively easy-to-learn or low difficulty as rated by supervisors and experienced field personnel (See section on Task Difficulty). The small number of tasks performed by high percentages of DAFSC 32450 job incumbents and the generally low difficulty index on these tasks is further evidence of a lack of job structure commonality in the career ladder, as indicated in Table 3.

Table 5 depicts the tasks which are performed by the largest percentages of job incumbents in DAFSC 32470. A comparison with Table 4 reveals that many tasks which are performed by the highest percentages of DAFSC 32450 job incumbents are also performed by personnel in DAFSC 32470; however, the percentage of members performing the tasks is much lower in the 7-skill level group. No task in the inventory is performed by more than 67 percent of these 7-skill level people. Similarly, only 20 tasks are performed by as many as 53 percent of the technician-supervisors. The heterogeneity or lack of commonality seen at the 5-skill level is equally evident at the 7-skill level.

Table 6 shows that job incumbents at the 9-skill level perform primarily tasks of a supervisory-managerial-administrative nature. The percent members performing the tasks is also quite high. Much greater job commonality is evident at the superintendent level than is seen at the 5- and 7-skill levels.

Table 7 lists tasks with the greatest differences in percent members performing between the specialists (5-skill level) and the technicians (7-skill level) surveyed. The tasks dealing with Directing and Implementing (Duty B), rather than the technical tasks, reflect the greatest differences. Although a much higher percentage of 7-level personnel perform supervisory tasks than do the 5-skill level incumbents, the DAFSC 30470 job incumbents nevertheless perform a wide variety of technical tasks. This table also shows that the transition from specialist (5-skill level) to technician/supervisor marks a major change in task performance.

The change from technician/supervisor to superintendent is depicted in Table 8 which lists the tasks of greatest difference in percent members performing between the 7-skill level and the 9-skill level personnel. As seen in this table, at the 9-skill level the performance of many technical tasks is greatly reduced. However, the tasks with the greatest variation in percent members performing are those identified with Organizing and Planning (Duty A), and Directing and Implementing (Duty B). This table also shows the transition from the 7-skill level to the 9-skill level to be one of considerable difference in task performance.

Table 3 summarizes the time spent on inventory duties by the 5-, 7-, and 9-skill level incumbents. The transition from specialist to technician-supervisor and from technician-supervisor to superintendent is easily seen in the changes in percentages of time spent in the duties.

TABLE 3

AVERAGE PERCENT TIME SPENT ON EACH DUTY BY 5-, 7-, AND 9-SKILL LEVEL INCUMBENTS

DUTY	PERCENT TIME SPENT		
	5- SKILL LEVEL	7- SKILL LEVEL	9- SKILL LEVEL
A ORGANIZING AND PLANNING	1	6	25
B DIRECTING AND IMPLEMENTING	4	19	40
C EVALUATING AND INSPECTING	1	7	19
D TRAINING	5	8	9
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS, AND EQUIPMENT	8	5	*
F CALIBRATING AND CERTIFYING IMPEDANCE AND IMPEDANCE MEASURING DEVICES	2	1	*
G CALIBRATING AND CERTIFYING FREQUENCY MEASURING AND GENERATING	8	5	*
H CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	4	2	*
I CALIBRATING AND CERTIFYING MICROWAVE MEASURING AND GENERATING EQUIPMENT	4	3	*
J CALIBRATING AND CERTIFYING SPECIAL TESTING EQUIPMENT	2	2	*
K CALIBRATING AND CERTIFYING RADIAC TEST EQUIPMENT	1	1	*
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL- DIMENSIONAL TEST EQUIPMENT	5	3	1
M CALIBRATING AND CERTIFYING OPTICAL MEASURING EQUIPMENT	*	*	*
N ELECTRONICALLY ALIGNING OR ADJUSTING PRECISION MEASURING EQUIPMENT (PME)	10	7	1
O MECHANICALLY ALIGNING OR ADJUSTING PRECISION MEASURING EQUIPMENT (PME)	2	1	*
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	9	7	1
Q REPAIRING ELECTRONIC PRECISION MEASURING EQUIPMENT	16	9	*
R REPAIRING ELECTRO-MECHANICAL-DIMENSIONAL PRECISION MEASURING EQUIPMENT	3	2	*
S MAINTAINING PLANT EQUIPMENT	3	2	*
T PERFORMING GENERAL PRECISION MEASURING EQUIPMENT FUNCTIONS	12	9	2

* LESS THAN ONE PERCENT

TABLE 4

TASKS PERFORMED BY LARGEST PERCENTAGES OF DAFSC 32450 INCUMBENTS

TASK	PERCENT PERFORMING
T25 REMOVE OR INSTALL FUSES OR FUSE HOLDERS ON PME	81
T2 CLEAN OR VISUALLY INSPECT PME	79
Q36 REMOVE OR INSTALL RESISTORS	78
Q52 SOLDER CONNECTIONS ON TRANSISTORIZED CIRCUITS	78
S14 PERFORM HOUSEKEEPING TASKS	77
T32 REMOVE OR INSTALL VACUUM TUBES ON PME	76
T35 TEST PME	76
P16 LOCATE TECHNICAL INFORMATION IN TO OR MANUFACTURER MANUALS	75
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	75
T8 LOCATE PARTS OR STOCK NUMBERS IN SUPPLY CATALOGS	75
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	75
T26 REMOVE OR INSTALL INDICATING LIGHTS ON PME	75
Q18 REMOVE OR INSTALL DAMAGED HARDWARE ON ELECTRONIC PME	73
Q32 REMOVE OR INSTALL POWER CORD ASSEMBLIES	73
Q15 REMOVE OR INSTALL CIRCUIT BOARDS	72
Q53 SOLDER CONNECTIONS ON VACUUM TUBE CIRCUITS	71
T30 REMOVE OR INSTALL SWITCHES ON PME	71
Q13 REMOVE OR INSTALL CAPACITORS	70
P15 LOCATE PARTS OR STOCK NUMBERS IN FEDERAL SUPPLY CATALOGS	69
Q11 REMOVE OR INSTALL BATTERIES	69
P29 READ OR INTERPRET SCHEMATICS, DIAGRAMS, OR CHARTS	68
T33 REMOVE OR INSTALL WIRING ON PME	67

TABLE 5

TASKS PERFORMED BY LARGEST PERCENTAGES OF DAFSC 32470 INCUMBENTS

TASK	PERCENT PERFORMING
B42 RESOLVE TECHNICAL PROBLEMS ENCOUNTERED BY SUBORDINATES	67
P16 LOCATE TECHNICAL INFORMATION IN TO OR MANUFACTURER MANUALS	66
T2 CLEAN OR VISUALLY INSPECT PME	66
T8 LOCATE PARTS OR STOCK NUMBERS IN SUPPLY CATALOGS	65
T35 TEST PME	61
B34 PREPARE OR COMPLETE MAINTENANCE FORMS	61
B35 PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)	60
B25 PREPARE CONDITION OR STATUS TAGS	60
P29 READ OR INTERPRET SCHEMATICS, DIAGRAMS, OR CHARTS	60
T25 REMOVE OR INSTALL FUSES OR FUSE HOLDERS ON PME	60
D6 DEMONSTRATE OPERATION OF EQUIPMENT	58
T7 IDENTIFY STATUS OR CONDITION OF PME	58
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	57
Q36 REMOVE OR INSTALL RESISTORS	56
Q52 SOLDER CONNECTIONS ON TRANSISTORIZED CIRCUITS	56
T26 REMOVE OR INSTALL INDICATING LIGHTS ON PME	56
B47 SUPERVISE PRECISION MEASURING EQUIPMENT SPECIALISTS (AFSC 32450)	55
S14 PERFORM HOUSEKEEPING TASKS	55
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	55
Q18 REMOVE OR INSTALL DAMAGED HARDWARE ON ELECTRONIC PME	53

TABLE 6

TASKS PERFORMED BY LARGEST PERCENTAGES OF DAFSC 32490 INCUMBENTS

TASK	PERCENT PERFORMING
B35 PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)	96
B4 COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	94
B21 INDOCTRINATE NEWLY ASSIGNED PERSONNEL	93
B44 SCHEDULE LEAVES OR PASSES	93
B12 DRAFT CORRESPONDENCE	92
B7 DIRECT COMPLIANCE WITH ADMINISTRATIVE PROCEDURES	91
B2 CONDUCT BRIEFINGS	90
B1 ASSIGN PERSONNEL TO DUTIES	89
B40 PREPARE TECHNICAL AND ADMINISTRATIVE REPORTS FOR AEROSPACE GUIDANCE AND METROLOGY CENTER (AGMC)	89
B49 SUPERVISE PRECISION MEASURING EQUIPMENT TECHNICIANS (AFSC 32470)	88
A26 PLAN OR IMPLEMENT SAFETY PROGRAMS	88
B8 DIRECT COMPLIANCE WITH PERFORMANCE STANDARDS	86
B22 INITIATE OR PREPARE PERSONNEL ACTION REQUESTS	86
B30 PREPARE PME LABORATORY REPORTS	85
B9 DIRECT OR CONDUCT INVENTORIES OF PME	84
A15 PLAN OR CONDUCT POLICY OR MAINTENANCE MEETINGS	84
D5 COUNSEL INDIVIDUALS ON TRAINING PROBLEMS	84
A37 PLAN WORK SCHEDULES OR PRIORITIES	83
B3 CONDUCT INSPECTIONS OR SPOT CHECKS OF MAINTENANCE METHODS	83
A10 ESTIMATE EQUIPMENT REQUIREMENTS	83

TABLE 7

TASKS WHICH MOST CLEARLY DISTINGUISH BETWEEN DAFSC 32450 AND 32470 PERSONNEL

TASK	PERCENT PERFORMING		
	32450	32470	DIFFERENCE
T32 REMOVE OR INSTALL VACUUM TUBES ON PME	76	52	24
T30 REMOVE OR INSTALL SWITCHES ON PME	71	48	23
Q53 SOLDER CONNECTIONS ON VACUUM TUBE CIRCUITS	71	48	23
Q1 CLEAN OR BURNISH CONTACT POINTS	62	40	22
B35 PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)	10	60	-50
B42 RESOLVE TECHNICAL PROBLEMS ENCOUNTERED BY SUBORDINATES	20	67	-47
B47 SUPERVISE PRECISION MEASURING EQUIPMENT SPECIALISTS (AFSC 32450)	9	55	-46
B3 CONDUCT INSPECTIONS OR SPOT CHECKS OF MAINTENANCE METHODS	5	47	-42
B4 COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	11	50	-39
C24 INSPECT OR EVALUATE QUALITY OF COMPLETED WORK	8	46	-38
B1 ASSIGN PERSONNEL TO DUTIES	8	44	-36
D5 COUNSEL INDIVIDUALS ON TRAINING PROBLEMS	10	43	-33
D3 CONDUCT ON-THE-JOB TRAINING (OJT)	13	46	-33
B8 DIRECT COMPLIANCE WITH PERFORMANCE STANDARDS	6	39	-33
D25 UPDATE OR ANNOTATE TRAINING RECORDS	11	43	-32
B7 DIRECT COMPLIANCE WITH ADMINISTRATIVE PROCEDURES	4	35	-31
B14 IDENTIFY ACCEPTABLE SUBSTITUTE EQUIPMENT	20	50	-30
D2 BRIEF PERSONNEL ON CHANGES IN METHODS OR PROCEDURES	8	37	-29
B21 INDOCTRINATE NEWLY ASSIGNED PERSONNEL	13	42	-29
B25 PREPARE CONDITION OR STATUS TAGS	31	60	-29
B12 DRAFT CORRESPONDENCE	5	34	-29
B18 IMPLEMENT OR DIRECT WORK FLOW	4	32	-28
B45 SUPERVISE APPRENTICE PME SPECIALISTS (AFSC 32430)	8	35	-27

TABLE 8

TASKS WHICH MOST CLEARLY DISTINGUISH BETWEEN DAFSC 32470 AND 32490 PERSONNEL

TASK	PERCENT PERFORMING		
	32470	32490	DIFFERENCE
T25 REMOVE OR INSTALL FUSES OR FUSE HOLDERS ON PME	60	4	56
Q52 SOLDER CONNECTIONS ON TRANSISTORIZED CIRCUITS	56	3	53
Q36 REMOVE OR INSTALL RESISTORS	56	4	52
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	57	7	50
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	55	5	50
T35 TEST PME	61	11	50
B40 PREPARE TECHNICAL AND ADMINISTRATIVE REPORTS FOR AEROSPACE GUIDANCE AND METROLOGY CENTER (AGMC)	15	89	-74
A23 PLAN OR IMPLEMENT INTERSERVICE SUPPORT AGREEMENTS	10	83	-73
B22 INITIATE OR PREPARE PERSONNEL ACTION REQUESTS	13	86	-73
A11 ESTIMATE PERSONNEL MANNING REQUIREMENTS	10	81	-71
B44 SCHEDULE LEAVES OR PASSES	24	93	-69
B24 PREPARE COMMAND CERTIFICATION OF REQUESTS FOR ASSISTANCE	8	77	-69
A15 PLAN OR CONDUCT POLICY OR MAINTENANCE MEETINGS	16	84	-68
C1 EVALUATE ADMINISTRATIVE PROCEDURES	13	81	-68
A14 PLAN ADMINISTRATIVE PROCEDURES	16	82	-66
A26 PLAN OR IMPLEMENT SAFETY PROGRAMS	22	88	-66
A24 PLAN OR IMPLEMENT PME AWAITING PARTS PROGRAMS	14	80	-66
A16 PLAN BRIEFINGS	15	80	-65
A2 DESIGNATE INDIVIDUALS TO PERFORM AS QUALITY ASSURANCE INSPECTORS	10	74	-64
A6 ESTABLISH SELF-HELP OR SELF-SUFFICIENCY PROGRAMS FOR SPACE OR FACILITIES	14	78	-64
C5 EVALUATE INSPECTION ROUTINES OR REPORTS	17	81	-64

ANALYSIS OF ACTIVE FEDERAL MILITARY SERVICE (AFMS) GROUPS

In this section task performance comparisons are made among groups of AFS 324X0 personnel with varying amounts of Active Federal Military Service (AFMS). These comparisons show results similar to those based on skill levels. Table 9 lists the average percent time spent on each duty for groups of job incumbents with time in service ranging from 10 to 24 months (first assignment after training) to more than 240 months.

Members of the career ladder in their first job assignment (10 to 24 months AFMS) spent the greatest amount of time (22 percent) Repairing Electronic Precision Measuring Equipment (Duty Q). Calibrating and Certifying Voltage, Current, Power Standards, and Equipment (Duty E) tasks accounted for 16 percent of duty time; and, Performing General PME Functions (Duty T) tasks consumed 15 percent of the duty time of group members. Tasks from these three duties account for 53 percent of the total duty time of the first job assignment (10 to 24 months service) personnel indicating as seen in Table 10, that these airmen also spend small amounts of time on a wide variety of tasks from other job inventory duties. The performance of technical tasks gradually declines, as time in service increases. For job incumbents with 240 or more months AFMS, time spent on tasks from technical duties drops to a total of only 23 percent. In addition, members of this senior group spend 34 percent of their time performing Directing and Implementing (Duty B) tasks; 19 percent Performing Organizing and Planning (Duty A) tasks; and 15 percent on Evaluating (Duty C) tasks.

Table 10 lists the most difficult tasks performed by 30 percent or more of DAFSC 324X0 personnel in their first job assignment. (The method used for obtaining the difficulty index is explained in the section on task difficulty. On a scale of one to nine, tasks with a difficulty index of 5.0 are tasks of average difficulty). This table lists tasks in descending order of difficulty. Although this group performs an average of 81 tasks, Table 10 shows that only 20 tasks were rated as average (5.0) or above in difficulty to learn to perform.

TABLE 9

PERCENT TIME SPENT ON EACH DUTY BY AFMS GROUPS

DUTY	MONTHS ACTIVE MILITARY SERVICE										
	10-24	10-48	49-96	97-144	145-192	193-240	240+				
A ORGANIZING AND PLANNING	0	1	2	2	4	8	19				
B DIRECTING AND IMPLEMENTING	1	3	6	8	15	22	34				
C EVALUATING AND INSPECTING	0	0	2	2	5	8	15				
D TRAINING	0	3	6	6	6	10	9				
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS, AND EQUIPMENT	16	10	6	6	6	4	2				
F CALIBRATING AND CERTIFYING IMPEDANCE AND IMPEDANCE MEASURING DEVICES	3	2	2	2	2	1	0				
G CALIBRATING AND CERTIFYING FREQUENCY MEASURING AND GENERATING	6	8	8	8	5	4	2				
H CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	5	5	4	3	4	2	1				
I CALIBRATING AND CERTIFYING MICROWAVE MEASURING AND GENERATING EQUIPMENT	2	3	4	4	2	2	1				
J CALIBRATING AND CERTIFYING SPECIAL TESTING EQUIPMENT	2	2	3	2	3	2	1				
K CALIBRATING AND CERTIFYING RADIAC TEST EQUIPMENT	0	0	1	1	1	1	0				
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL-DIMENSIONAL TEST EQUIPMENT	3	5	5	4	4	3	1				
M CALIBRATING AND CERTIFYING OPTICAL MEASURING EQUIPMENT	0	0	0	0	0	0	0				
N ELECTRONICALLY ALIGNING OR ADJUSTING PRECISION MEASURING EQUIPMENT (PME)	9	10	10	10	8	5	2				
O MECHANICALLY ALIGNING OR ADJUSTING PRECISION MEASURING EQUIPMENT (PME)	1	2	2	2	1	1	0				
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	9	9	8	9	8	7	3				
Q PREPARING ELECTRONIC PRECISION MEASURING EQUIPMENT (PME)	22	18	14	14	11	8	3				
R REPAIRING ELECTRO-MECHANICAL-DIMENSIONAL PRECISION MEASURING EQUIPMENT (PME)	2	3	2	3	2	2	1				
S MAINTAINING PLANT EQUIPMENT	4	4	3	3	2	2	1				
T PERFORMING GENERAL PRECISION MEASURING EQUIPMENT (PME) FUNCTIONS	15	12	12	11	11	8	5				

TABLE 10
MOST DIFFICULT TASKS PERFORMED BY DAFSC 324XO PERSONNEL
WITH 10-24 MONTHS AFMS*

TASK	PERCENT PERFORMING 10-24 MONTHS	DIFFICULTY INDEX
P24 PERFORM SOLID STATE CIRCUIT ANALYSES	48	6.9
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	78	6.7
P29 READ OR INTERPRET SCHEMATICS, DIAGRAMS, OR CHARTS	56	6.3
P7 COMPUTE PROBABLE ERROR, CORRECTION FACTORS, OR STANDARD DEVIATIONS	37	6.1
E15 CALIBRATE AND CERTIFY DC VOLTAGE STANDARDS	35	6.0
Q5 RECONDITION PRINTED CIRCUIT BOARDS	30	6.0
E7 CALIBRATE AND CERTIFY AC VOLTAGE STANDARDS	32	5.9
E4 CALIBRATE AND CERTIFY AC INSTRUMENT CALIBRATION STANDARDS	30	5.9
P1 CALCULATE CURRENT VOLTAGE, POWER, IMPEDANCE, PARAMETERS, ADMITTANCE, SUCCEPTANCE, OR REACTANCES	49	5.9
E14 CALIBRATE AND CERTIFY DC INSTRUMENT CALIBRATION STANDARDS	30	5.8
T35 TEST PME	75	5.6
E18 CALIBRATE AND CERTIFY DIGITAL MULTIMETERS	32	5.6
P17 PERFORM AC OR DC ELECTRICAL CIRCUIT ANALYSES	62	5.5
N15 ALIGN OR ADJUST FILTER CIRCUITS	35	5.3
E17 CALIBRATE AND CERTIFY DIFFERENTIAL VOLTMETERS	33	5.2
Q51 SOLDER CONNECTIONS ON INTEGRATED CIRCUITS	57	5.1
T27 REMOVE OR INSTALL INTEGRATED CIRCUITS ON PME	44	5.1
E39 CALIBRATE AND CERTIFY VACUUM TUBE VOLTMETER CALIBRATORS	46	5.0
N14 ALIGN OR ADJUST ELECTRICAL GAIN CIRCUITS	32	5.0
N8 ALIGN OR ADJUST OSCILLATORS	30	5.0

* THIRTY PERCENT OR MORE PERFORMING AND A DIFFICULTY INDEX OF 5.0 OR HIGHER ARE USED AS THE CUT-OFF FOR TASKS TO BE INCLUDED IN THE TABLE.

COMPARISONS OF CONUS/OVERSEAS TASK PERFORMANCE

Table 11 depicts the tasks of greatest difference in percent members performing between DAFSC 32450 respondents stationed in CONUS and those stationed overseas. The differences were minimal. The task of greatest difference in percent members performing is Task Q38, Remove or Install Solid State Components; 72 percent of CONUS and 84 percent of overseas personnel performed this task. All other tasks had a difference of 11 percent or less.

TABLE 11

TASKS WHICH MOST CLEARLY DISTINGUISH BETWEEN
CONUS AND OVERSEAS 5-SKILL LEVEL PERSONNEL

TASK	PERCENT PERFORMING		DIFFERENCE
	CONUS	OVERSEAS	
D15 PERFORM AS CLASSROOM INSTRUCTOR	12	1	11
T31 REMOVE OR INSTALL SYNCHROS ON PME	27	16	11
N43 ALIGN OR ADJUST SYNCHROS	28	17	11
T8 LOCATE PARTS OR STOCK NUMBERS IN SUPPLY CATALOGS	72	82	-10
J37 CALIBRATE AND CERTIFY TELEPHONE TEST SETS	11	22	-11
Q36 REMOVE OR INSTALL RESISTORS	75	86	-11
Q53 SOLDER CONNECTIONS ON VACUUM TUBE CIRCUITS	68	79	-11
T26 REMOVE OR INSTALL INDICATING LIGHTS ON PME	73	84	-11
Q2 CONSTRUCT CABLES ADAPTERS, OR TERMINATIONS	57	68	-11
Q11 REMOVE OR INSTALL BATTERIES	67	78	-11
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	72	84	-12

TASK DIFFICULTY

Incumbents in the 7- and 9-skill levels from a wide variety of locations and commands were selected from a list of AFSC 324X0 airmen to rate task difficulty. Ratings were based on a nine-point scale from extremely low to extremely high difficulty. Difficulty was defined as the length of time required for an average incumbent to learn to perform the task satisfactorily. Interrater agreement among the 91 raters who completed the booklets was .98. The ratings were adjusted so that tasks of average difficulty have a rating of 5.0.

Among the 701 tasks in the survey instrument 383 tasks received a difficulty rating of 5.0 (average) or above; however, few of these tasks were performed by large percentages of the respondents to the survey. Table 12 lists the 20 most difficult tasks performed by 25 percent or more of survey respondents. The 20 least difficult tasks performed by 25 percent or more of these personnel are listed in Table 13. An earlier table (Table 10) lists the 20 most difficult tasks performed by incumbents in the 10-24 months AFMS (first job assignment) group. When used in conjunction with other factors, such as percent members performing, the difficulty index can be a useful tool in making decisions concerning training.

TABLE 12

MOST DIFFICULT TASKS PERFORMED BY 25 PERCENT
OR MORE OF THE SURVEY RESPONDENTS

TASK	PERCENT MEMBERS PERFORMING	DIFFICULTY INDEX
P19 PERFORM LINEAR INTEGRATED CIRCUIT ANALYSES	26	7.1
P18 PERFORM DIGITAL INTEGRATED CIRCUIT ANALYSES	35	7.0
P24 PERFORM SOLID STATE CIRCUIT ANALYSES	44	7.0
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	63	6.8
B5 DEVELOP NEW OR ACCEPTABLE SUBSTITUTE CALIBRATION PROCEDURES	26	6.6
N12 ALIGN OR ADJUST DELAY LINES	27	6.5
B42 RESOLVE TECHNICAL PROBLEMS ENCOUNTERED BY SUBORDINATES	43	6.4
P29 READ OR INTERPRET SCHEMATICS, DIAGRAMS, OR CHARTS	60	6.3
P7 COMPUTE PROBABLE ERROR, CORRECTION FACTORS, OR STANDARD DEVIATIONS	42	6.0
E15 CALIBRATE AND CERTIFY DC VOLTAGE STANDARDS	27	6.0
N42 ALIGN OR ADJUST SWEEP FREQUENCY OSCILLATORS	26	6.0
G15 CALIBRATE AND CERTIFY FREQUENCY MODULATED GENERATORS	31	6.0
Q5 RECONDITION PRINTED CIRCUIT BOARDS	30	6.0
P14 INTERPRET SOLID STATE SPECIFICATIONS	25	6.0
E7 CALIBRATE AND CERTIFY AC VOLTAGE STANDARDS	27	6.0
G10 CALIBRATE AND CERTIFY FAST RISE TIME GENERATORS	30	5.9
E4 CALIBRATE AND CERTIFY AC INSTRUMENT CALIBRATION STANDARDS	27	5.9
P1 CALCULATE CURRENT VOLTAGE, POWER, IMPEDANCE, PARAMETERS, ADMITTANCE, SUCCEPTANCE, OR REACTANCES	41	5.9
B35 PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)	36	5.8
G33 CALIBRATE AND CERTIFY SWEEP FREQUENCY GENERATORS	29	5.8

TABLE 13

LEAST DIFFICULT TASKS PERFORMED BY 25 PERCENT OR MORE OF THE SURVEY RESPONDENTS

TASK	PERCENT MEMBERS PERFORMING	DIFFICULTY INDEX
R2 CLEAN FILTERS	37	1.9
S14 PERFORM HOUSEKEEPING TASKS	63	1.9
S3 CLEAN OR REPLACE FLOURESCENT LIGHTS	38	1.9
Q11 REMOVE OR INSTALL BATTERIES	57	2.0
Q32 REMOVE OR INSTALL POWER CORD ASSEMBLIES	59	2.2
T26 REMOVE OR INSTALL INDICATING LIGHTS ON PME	62	2.3
Q36 REMOVE OR INSTALL RESISTORS	64	2.4
T25 REMOVE OR INSTALL FUSES OR FUSE HOLDERS ON PME	67	2.5
T32 REMOVE OR INSTALL VACUUM TUBES ON PME	61	2.6
T2 CLEAN OR VISUALLY INSPECT PME	70	2.7
T9 LUBRICATE MOVING PARTS OF PME	52	2.7
Q18 REMOVE OR INSTALL DAMAGED HARDWARE ON ELECTRONIC PME	60	2.8
Q1 CLEAN OR BURNISH CONTACT POINTS	49	2.8
S2 CLEAN OR REFINISH INTERIOR LABORATORY SURFACES	40	2.8
Q13 REMOVE OR INSTALL CAPACITORS	57	2.8
S13 OPERATE CLEANING MACHINES	37	2.9
Q17 REMOVE OR INSTALL CRYSTALS	34	3.0
Q35 REMOVE OR INSTALL RELAYS	35	3.0
B25 PREPARE CONDITION OR STATUS TAGS	44	3.1
Q15 REMOVE OR INSTALL CIRCUIT BOARDS	59	3.2

COMPARISON TO EARLIER STUDIES

The results of this survey were compared to Occupational Survey Report AFPT 90-324-034, 16 November 1970. Several of the findings in the two studies are very similar. For example, both studies found that: (1) a high percentage of personnel in their first enlistment do not plan to reenlist; (2) there is a high probability that airmen in their first job assignment will repair electronic precision measuring equipment; (3) there is a low probability that airmen in their first job assignment will repair electro-mechanical-dimensional precision measuring equipment; (4) there are no substantial differences in task performance by DAFSC 32450 personnel assigned CONUS and those assigned overseas; (5) there appears to be no advantage in restructuring or shredding out the career ladder.

One difference found was that the earlier study indicated that members of this career ladder had a high average amount of military service which contributed substantially to the experience level of these personnel. The current study did not show an unusually high average amount of military service. This change is probably due largely to the reduced percentage of personnel coming to this career ladder by lateral transfer from other career ladders since the implementation of the basic course in 1968.

COMPARISONS OF OCCUPATIONAL SURVEY DATA WITH SPECIALTY TRAINING STANDARD (STS) 324X0

The STS for the AFS 324X0 career ladder dated 30 April 1975, seems to provide good general coverage of the technical tasks performed by survey respondents.

However, there are many tasks coded 2b (requiring partial proficiency and knowledge of step by step procedures for doing the task) at the course level which are performed by less than 30 percent of DAFSC 324X0 personnel with 10-24 months AFMS (first job assignment after training). Some examples of this are seen in a comparison between paragraphs 26, 27, and 28 of the STS (which deal with Waveform Analyzing Working Standards/Circuit Analysis as applied to oscilloscopes, constant amplitude generators, square wave generators and time mark generators) and task performance reported by survey respondents with 10-24 months AFMS. As seen in Table 14, there is only one task performed by 30 percent or more of job incumbents with 10-24 months service.

TABLE 14

SELECTED TASKS RELATED TO WAVEFORM ANALYZING EQUIPMENT
PERFORMED BY DAFSC 324X0 PERSONNEL WITH 10-24 MONTHS AFMS

TASK	PERCENT PERFORMING
H6 CALIBRATE AND CERTIFY GENERAL PURPOSE OSCILLOSCOPES	40
H8 CALIBRATE AND CERTIFY LABORATORY GRADE OSCILLOSCOPES	29
H3 CALIBRATE AND CERTIFY DISTORTION ANALYZERS	27
G32 CALIBRATE AND CERTIFY SQUARE WAVE GENERATORS	27
H10 CALIBRATE AND CERTIFY OSCILLOSCOPE PROBES	25
G3 CALIBRATE AND CERTIFY CONSTANT AMPLITUDE GENERATORS	24
H5 CALIBRATE AND CERTIFY FAST RISE TIME PLUG-IN UNITS	22
G35 CALIBRATE AND CERTIFY TIME MARK GENERATORS	22
H9 CALIBRATE AND CERTIFY MEMORY OR STORAGE OSCILLOSCOPES	13
H13 CALIBRATE AND CERTIFY SAMPLING OSCILLOSCOPES	10
H1 CALIBRATE AND CERTIFY CHARACTERISTIC CURVE TRACER OSCILLOSCOPES	8

CONCLUSIONS

1. Utilization of personnel within career ladder is quite diverse as reflected by many dissimilar job types involving a degree of specialization to numerous kinds of equipment. The use of SEI's to identify individual specializations might be advantageous.
2. The STS and AFM 39-1 generally cover the tasks performed in the field.
3. While job interest, as well as, the perceived utilization of talents and training are high, the reenlistment intentions expressed by survey respondents are low in comparison with the responses for incumbents in the combined ladders surveyed during 1976.
4. A comparison of the current survey with an earlier study dated 16 November 1970, revealed similar results.

APPENDIX A

GROUP ID NUMBER AND TITLE: GRP298, DC-LOW FREQUENCY AC AND K8 CONSOLE
SPECIALIST

PERCENT OF SAMPLE: 4.5

MAJOR COMMAND DISTRIBUTION: SAC 27% TAC 22% MAC 19% USAFE 11%
ADC 5% PACAF 5% OTHER 11%

DAFSC DISTRIBUTION: 32430 (3%), 32450 (64%), 32470 (33%)

AVERAGE GRADE: 4.6

EXPRESSED JOB INTEREST: 89 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 93 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 92 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 32

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS AND EQUIPMENT	23
Q REPAIRING ELECTRONIC PRECISION MEASURING EQUIPMENT (PME)	18
T PERFORMING GENERAL PME FUNCTIONS	13
F CALIBRATING AND CERTIFYING IMPEDANCE AND IMPEDANCE MEASURING DEVICES	10
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
F6 CALIBRATE AND CERTIFY DECADE RESISTORS	98
Q36 REMOVE OR INSTALL RESISTORS	98
E17 CALIBRATE AND CERTIFY DIFFERENTIAL VOLTMETERS	97
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	97
E15 CALIBRATE AND CERTIFY DC VOLTAGE STANDARDS	97

GROUP ID NUMBER AND TITLE: GRP358, DC-LOW FREQUENCY AC AND K1 VOLTAGE
CURRENT POWER SUPERVISOR

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: SAC 29% MAC 29% PACAF 14% TAC 14%
USAF 14%

DAFSC DISTRIBUTION: 32450 (14%), 32470 (86%)

AVERAGE GRADE: 6.4

EXPRESSED JOB INTEREST: 100 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 100 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 38

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS AND EQUIPMENT	23
B DIRECTING AND IMPLEMENTING	16
Q REPAIRING ELECTRONIC PRECISION MEASURING EQUIPMENT (PME)	14
T PERFORMING GENERAL PME FUNCTIONS	13
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	7

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
T35 TEST PME	100
E25 CALIBRATE AND CERTIFY NON-ELECTRONIC MULTIMETERS	100
B47 SUPERVISE PRECISION MEASURING EQUIPMENT SPECIALISTS (AFSC 32450)	100
B42 RESOLVE TECHNICAL PROBLEMS ENCOUNTERED BY SUBORDINATES	100
E5 CALIBRATE AND CERTIFY AC OR DC LABORATORY VOLTMETERS OR AMMETERS	100

GROUP ID NUMBER AND TITLE: GRP329, DC-LOW FREQUENCY AC AND K1 VOLTAGE
CURRENT POWER SPECIALIST

PERCENT OF SAMPLE: 6.0

MAJOR COMMAND DISTRIBUTION: SAC 29% TAC 18% USAFE 12% MAC 14%
PACAF 7% AFSC 6% ATC 5% OTHER 9%

DAFSC DISTRIBUTION: 32430 (18%), 32450 (67%), 32470 (15%)

AVERAGE GRADE: 4.2

EXPRESSED JOB INTEREST: 75 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 80 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 95 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 90

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	25
E CALIBRATING AND CERTIFYING VOLTAGES, CURRENT, POWER STANDARDS, AND EQUIPMENT	20
T PERFORMING GENERAL PME FUNCTIONS	19
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	9
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q30 REMOVE OR INSTALL METER MOVEMENTS	99
Q53 SOLDER CONNECTIONS ON VACUUM TUBE CIRCUITS	98
T35 TEST PME	95
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	93
E44 CALIBRATE AND CERTIFY VOLTMETERS	89

GROUP ID NUMBER AND TITLE: GRP373, GENERAL PME, ELECTRONIC PME REPAIR
AND VOLTAGE/CURRENT/POWER STANDARDS
SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

DAFSC DISTRIBUTION: 32430 (29%), 32450 (57%), 32470 (14%)

AVERAGE GRADE: 4.1

EXPRESSED JOB INTEREST: 57 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 100 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 102

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
T PERFORMING GENERAL PME FUNCTIONS	19
Q REPAIRING ELECTRONIC PME	17
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS, AND EQUIPMENT	12
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL- DIMENSIONAL TEST EQUIPMENT	11
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
T5 DISASSEMBLE AND INSPECT PME	100
P16 LOCATE TECHNICAL INFORMATION IN TO OR MANUFACTURER MANUALS	100
Q36 REMOVE OR INSTALL RESISTORS	100
E44 CALIBRATE AND CERTIFY VOLTMETERS	100
L54 CALIBRATE AND CERTIFY PRESSURE GAUGES	86

GROUP ID NUMBER AND TITLE: GRP315, ELECTRONIC PME REPAIR/CALIBRATION/
CERTIFICATION/ALIGNMENT SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: ADC 17% ATC 17% PACAF 17% SAC 17%
TAC 16% USAFE 16%

DAFSC DISTRIBUTION: 32430 (17%), 32450 (83%)

AVERAGE GRADE: 3.8

EXPRESSED JOB INTEREST: 83 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 83 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 100

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	19
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS AND EQUIPMENT	16
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	15
T PERFORMING GENERAL PME FUNCTIONS	13
H CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H8 CALIBRATE AND CERTIFY LABORATORY GRADE OSCILLOSCOPES	100
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	100
E7 CALIBRATE AND CERTIFY AC VOLTAGE STANDARDS	100
N49 ALIGN OR ADJUST VOLTAGE MEASURING CIRCUITS	100
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	100

GROUP ID NUMBER AND TITLE: GRP185, VOLTAGE/CURRENT/POWER CALIBRATION
AND ELECTRONIC PME REPAIR SPECIALIST

PERCENT OF SAMPLE: 1.4

MAJOR COMMAND DISTRIBUTION: MAC 40% SAC 25% TAC 20% USAFE 10%
ATC 5%

DAFSC DISTRIBUTION: 32430 (30%), 32450 (65%), 32470 (5%)

AVERAGE GRADE: 3.9

EXPRESSED JOB INTEREST: 70 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 90 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 75 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 42

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS AND EQUIPMENT	29
Q REPAIRING ELECTRONIC PME	27
T PERFORMING GENERAL PME FUNCTIONS	18

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q11 REMOVE OR INSTALL BATTERIES	100
E5 CALIBRATE AND CERTIFY AC OR DC LABORATORY VOLTMETERS OR AMMETERS	100
Q30 REMOVE OR INSTALL METER MOVEMENTS	95
E8 CALIBRATE AND CERTIFY AMMETERS	90
Q36 REMOVE OR INSTALL RESISTORS	90

GROUP ID NUMBER AND TITLE: GRP336, WAVEFORM ANALYSIS/TIME FREQUENCY
AND K3 FREQUENCY SPECIALIST

PERCENT OF SAMPLE: 4.7

MAJOR COMMAND DISTRIBUTION: USAFE 20% MAC 18% SAC 17% TAC 14%
AFSC 9% PACAF 8% ADC 4% ATC 4%
OTHER 6%

DAFSC DISTRIBUTION: 32430 (5%), 32450 (76%), 32470 (19%)

AVERAGE GRADE: 4.4

EXPRESSED JOB INTEREST: 82 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 89 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 95 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 73

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	22
T PERFORMING GENERAL PME FUNCTIONS	18
H CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	18
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	15
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSIS	8

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H6 CALIBRATE AND CERTIFY GENERAL PURPOSE OSCILLOSCOPES	100
H4 CALIBRATE AND CERTIFY DUAL TRACE PLUG-IN UNITS	97
Q52 SOLDER CONNECTIONS ON TRANSISTORIZED CIRCUITS	95
T35 TEST PME	86
N47 ALIGN OR ADJUST TRIGGER CIRCUITS	82

GROUP ID NUMBER AND TITLE: GRP259, ELECTRONIC PME MINOR MAINTENANCE
SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: SAC 38% TAC 25% MAC 13% USAFE 12%
USAFSS 12%

DAFSC DISTRIBUTION: 32430 (25%), 32450 (38%), 32470 (37%)

AVERAGE GRADE: 4.4

EXPRESSED JOB INTEREST: 87 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 97 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 97 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 86

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	28
T PERFORMING GENERAL PME FUNCTIONS	19
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSIS	11
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	100
P16 LOCATE TECHNICAL INFORMATION IN TO OR MANUFACTURER MANUALS	100
T2 CLEAN OR VISUALLY INSPECT PME	100
Q38 REMOVE OR INSTALL SOLID STATE COMPONENTS	100
Q36 REMOVE OR INSTALL RESISTORS	100

GROUP ID NUMBER AND TITLE: GRP262, AVIONICS TEST SETS, MICROWAVE AND
MISCELLANEOUS ELECTRONIC PME SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: TAC 28% MAC 18% USAFE 18% ADC 9%
AFSC 9% PACAF 9% SAC 9%

DAFSC DISTRIBUTION: 32450 (91%), 32470 (9%)

AVERAGE GRADE: 4.1

EXPRESSED JOB INTEREST: 91 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 82 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 82 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 84

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	21
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	16
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	14
J CALIBRATING AND CERTIFYING SPECIAL TESTING EQUIPMENT	13
T PERFORMING GENERAL PME FUNCTIONS	12

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
J17 CALIBRATE AND CERTIFY IDENTIFICATION FRIEND OR FOE (IFF) OR SELECTIVE IDENTIFICATION FEATURE (SIF) INTERROGATOR TEST SETS	100
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	100
P16 LOCATE TECHNICAL INFORMATION IN TO OR MANUFACTURER MANUALS	100
N39 ALIGN OR ADJUST RADIO FREQUENCY (RF) CIRCUITS	91
J36 CALIBRATE AND CERTIFY TACAN SIMULATORS	91

GROUP ID NUMBER AND TITLE: GRP241, FREQUENCY MEASURING AND GENERATING
CALIBRATION/CERTIFICATION AND ELECTRONIC
PME REPAIR SPECIALIST

PERCENT OF SAMPLE: 1.0

MAJOR COMMAND DISTRIBUTION: SAC 31% AFCS 15% TAC 15% USAFE 15%
ADC 8% AFSC 8% ATC 8%

DAFSC DISTRIBUTION: 32450 (69%), 32470 (23%), NO RESPONSE (8%)

AVERAGE GRADE: 4.5

EXPRESSED JOB INTEREST: 92 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 77 PERCENT FAIRLY WELL TO INTERESTING

PERCEIVED UTILIZATION OF TRAINING: 92 PERCENT FAIRLY WELL TO INTERESTING

AVERAGE NUMBER OF TASKS PERFORMED: 82

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
G CALIBRATING AND CERTIFYING FREQUENCY MEASURING AND GENERATING EQUIPMENT	26
Q REPAIRING ELECTRONIC PME	26
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	17
T PERFORMING GENERAL PME FUNCTIONS	14

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	100
G1 CALIBRATE AND CERTIFY AUDIO FREQUENCY (AF) SINE WAVE GENERATORS	100
G32 CALIBRATE AND CERTIFY SQUARE WAVE GENERATORS	100
G28 CALIBRATE AND CERTIFY PULSE GENERATORS	100
Q15 REMOVE OR INSTALL CIRCUIT BOARDS	92

GROUP ID NUMBER AND TITLE: GRP222, ELECTRONIC PME REPAIR, FREQUENCY
MEASURING AND GENERATING CALIBRATION/
CERTIFICATION SPECIALIST/SUPERVISOR

PERCENT OF SAMPLE: 25.7

MAJOR COMMAND DISTRIBUTION: SAC 24% TAC 20% MAC 12% USAFE 11%
ATC 8% AFSC 6% USAFSS 5% PACAF 5%
OTHER 9%

DAFSC DISTRIBUTION: 32430 (4%), 32450 (58%), 32470 (38%)

AVERAGE GRADE: 4.7

EXPRESSED JOB INTEREST: 85 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 94 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 94 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 193

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	16
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	16
G CALIBRATING AND CERTIFYING FREQUENCY MEASURING AND GENERATING EQUIPMENT	14
T PERFORMING GENERAL PME FUNCTIONS	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q52 SOLDER CONNECTIONS ON TRANSISTORIZED CIRCUITS	97
G1 CALIBRATE AND CERTIFY AUDIO FREQUENCY (AF) SINE WAVE GENERATORS	96
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	94
N8 ALIGN OR ADJUST OSCILLATORS	94
T35 TEST PME	94

GROUP ID NUMBER AND TITLE: GRP362, ELECTRO-MECHANICAL-DIMENSIONAL TEST
EQUIPMENT AND GENERAL ELECTRONIC
PME SPECIALIST

PERCENT OF SAMPLE: 2.7

MAJOR COMMAND DISTRIBUTION: SAC 24% MAC 21% USAFE 16% TAC 13%
ATC 8% AAC 3% USAFSS 5% ADC 3%
OTHER 7%

DAFSC DISTRIBUTION: 32430 (3%), 32450 (60%), 32470 (37%)

AVERAGE GRADE: 4.6

EXPRESSED JOB INTEREST: 95 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 92 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 97 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 250

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL- DIMENSIONAL TEST EQUIPMENT	16
Q REPAIRING ELECTRONIC PME	13
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS, AND EQUIPMENT	10
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	9
T PERFORMING GENERAL PME FUNCTIONS	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	100
L54 CALIBRATE AND CERTIFY PRESSURE GAUGES	97
L17 CALIBRATE AND CERTIFY PRESSURE GAUGES	97
E44 CALIBRATE AND CERTIFY VOLTMETERS	95
T32 REMOVE OR INSTALL VACUUM TUBES ON PME	95

GROUP ID NUMBER AND TITLE: GRP216, ELECTRONIC/GENERAL PME REPAIR AND
ELECTRO-MECHANICAL-DIMENSIONAL TEST
EQUIPMENT CALIBRATION/CERTIFICATION
SPECIALIST

PERCENT OF SAMPLE: 1.0

MAJOR COMMAND DISTRIBUTION: SAC 39% ATC 16% TAC 15% USAFE 15%
USAFSS 15%

DAFSC DISTRIBUTION: 32450 (77%), 32470 (23%)

AVERAGE GRADE: 4.4

EXPRESSED JOB INTEREST: 85 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 92 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 92 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 147

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
Q REPAIRING ELECTRONIC PME	16
T PERFORMING GENERAL PME FUNCTIONS	12
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL- DIMENSIONAL TEST EQUIPMENT	11
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT, POWER STANDARDS AND EQUIPMENT	10
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
P29 READ OR INTERPRET SCHEMATICS, DIAGRAMS OR CHARTS	100
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	100
T8 LOCATE PARTS OR STOCK NUMBERS IN SUPPLY CATALOGUES	100
E37 CALIBRATE AND CERTIFY TUBE OR SOLID STATE VOLTMETERS	100
L54 CALIBRATE AND CERTIFY PRESSURE GAUGES	92

GROUP ID NUMBER AND TITLE: GRP166, FREQUENCY/MICROWAVE MEASURING AND
GENERATING EQUIPMENT CALIBRATION/
CERTIFICATION SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: AFSC 20% MAC 20% PACAF 20% SAC 20%
USAF 20%

DAFSC DISTRIBUTION: 32450 (60%), 32470 (40%)

AVERAGE GRADE: 5.0

EXPRESSED JOB INTEREST: 80 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 80 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 131

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
G CALIBRATING AND CERTIFYING FREQUENCY MEASURING AND GENERATING EQUIPMENT	32
I CALIBRATING AND CERTIFYING MICROWAVE MEASURING AND GENERATING EQUIPMENT	24
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	10
H CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
G23 CALIBRATE AND CERTIFY MULTIPURPOSE SIGNAL GENERATORS	100
G4 CALIBRATE AND CERTIFY CRYSTAL CONTROL OSCILLATORS	100
G39 CALIBRATE AND CERTIFY VIDEO AMPLIFIER PLUG-INS	100
H3 CALIBRATE AND CERTIFY DISTORTION ANALYZERS	100
I36 CALIBRATE AND CERTIFY WAVEGUIDE ATTENUATORS	100

GROUP ID NUMBER AND TITLE: GRP147, PMEL SUPERVISOR/NCOIC AND GENERAL PME
TECHNICIAN

PERCENT OF SAMPLE: 1.9

MAJOR COMMAND DISTRIBUTION: SAC 30% MAC 22% ATC 15% USAFE 11%
PACAF 7% TAC 7% ADC 4% AFSC 4%

DAFSC DISTRIBUTION: 32470 (89%), 32490 (7%), NO RESPONSE (4%)

AVERAGE GRADE: 6.3

EXPRESSED JOB INTEREST: 89 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 92 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 92 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 194

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
B DIRECTING AND IMPLEMENTING	20
Q REPAIRING ELECTRONIC PME	10
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	9
T PERFORMING GENERAL PME FUNCTIONS	9
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSIS	7

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
B42 RESOLVE TECHNICAL PROBLEMS ENCOUNTERED BY SUBORDINATES	96
Q4 ISOLATE MALFUNCTIONS IN ELECTRONIC PME	96
T35 TEST PME	96
B47 SUPERVISE PRECISION MEASURING EQUIPMENT SPECIALISTS (AFSC 32450)	93
P16 LOCATE TECHNICAL INFORMATION IN TO OR MAUNFACTURER MANUALS	93

GROUP ID NUMBER AND TITLE: GRP203, MICROWAVE MEASURING AND GENERATING
CALIBRATION/CERTIFICATION AND ELECTRONIC
PME REPAIR SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: MAC 37% TAC 18% USAFE 18% ADC 9%
ATC 9% SAC 9%

DAFSC DISTRIBUTION: 32430 (9%), 32450 (73%), 323470 (18%)

AVERAGE GRADE: 4.5

EXPRESSED JOB INTEREST: 82 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 91 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 91 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 82

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
I CALIBRATING AND CERTIFYING MICROWAVE MEASURING AND GENERATING EQUIPMENT	27
Q REPAIRING ELECTRONIC PME	19
T PERFORMING GENERAL PME FUNCTIONS	14
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	12
N ELECTRONICALLY ALIGNING OR ADJUSTING PME	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
I4 CALIBRATE AND CERTIFY COAXIAL ATTENUATORS	100
I18 CALIBRATE AND CERTIFY MICROWAVE POWER METERS	100
T8 LOCATE PARTS OR STOCK NUMBERS IN SUPPLY CATALOGUES	100
Q47 REMOVE OR INSTALL WAVE GUIDE ASSEMBLIES	82
N34 ALIGN OR ADJUST POWER MEASURING CURCUITS	82

GROUP ID NUMBER AND TITLE: GRP105, VOLTAGE/CURRENT/POWER STANDARDS AND
ELECTRO-MECHANICAL-DIMENSIONAL TEST
EQUIPMENT SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: SAC 25% TAC 25% AFSC 25% ATC 13%
PACAF 12%

DAFSC DISTRIBUTION: 32450 (38%), 32470 (50%), 32490 (12%)

AVERAGE GRADE: 5.3

EXPRESSED JOB INTEREST: 75 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 87 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 87 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 210

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
E CALIBRATING AND CERTIFYING VOLTAGES, CURRENT, POWER STANDARDS AND EQUIPMENT	22
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL- DIMENSIONAL TEST EQUIPMENT	16
G CALIBRATING AND CERTIFYING FREQUENCY MEASURING AND GENERATING EQUIPMENT	12
B DIRECTING AND IMPLEMENTING	8
F CALIBRATING AND CERTIFYING IMPEDANCE AND IMPEDANCE MEASURING DEVICES	6

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
E37 CALIBRATE AND CERTIFY TUBE OR SOLID STATE VOLTMETERS	100
E25 CALIBRATE AND CERTIFY NON-ELECTRONIC MULTIMETERS	100
E7 CALIBRATE AND CERTIFY AC VOLTAGE STANDARDS	100
G32 CALIBRATE AND CERTIFY SQUARE WAVE GENERATORS	75
L1 CALIBRATE AND CERTIFY ABSOLUTE PRESSURE GAUGES	75

GROUP ID NUMBER AND TITLE: GRP338, ELECTRO-MECHANICAL-DIMENSIONAL TEST
EQUIPMENT AND GENERAL PME REPAIR
SPECIALIST

PERCENT OF SAMPLE: 4.7

MAJOR COMMAND DISTRIBUTION: TAC 32% SAC 24% USAFE 18% MAC 8%
PACAF 5% ATC 5% ADC 3% AFSC 3%
OTHER 2%

DAFSC DISTRIBUTION: 32430 (5%), 32450 (56%), 32470 (38%), NO RESPONSE (1%)

AVERAGE GRADE: 4.8

EXPRESSED JOB INTEREST: 91 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 94 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 74 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 154

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL-DIMENSIONAL TEST EQUIPMENT	29
R REPAIRING ELECTRO-MECHANICAL-DIMENSIONAL PME	13
T PERFORMING GENERAL PME FUNCTIONS	12
Q REPAIRING ELECTRONIC PME	9
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSIS	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
L54 CALIBRATE AND CERTIFY PRESSURE GAUGES	100
L17 CALIBRATE AND CERTIFY DIAL INDICATORS	100
R4 ISOLATE MALFUNCTIONS IN ELECTRO-MECHANICAL-DIMENSIONAL PME	95
P16 LOCATE TECHNICAL INFORMATION IN TO OR MANUFACTURER MANUALS	95
T35 TEST PME	83

GROUP ID NUMBER AND TITLE: GRP240, ELECTRO-MECHANICAL-DIMENSIONAL TEST
EQUIPMENT SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: SAC 34% TAC 25% USAF 17% MAC 8%
PACAF 8% AU 8%

DAFSC DISTRIBUTION: 32450 (83%), 32470 (17%)

AVERAGE GRADE: 4.5

EXPRESSED JOB INTEREST: 92 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 83 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 75 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 77

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
L CALIBRATING AND CERTIFYING ELECTRO-MECHANICAL- DIMENSIONAL TEST EQUIPMENT	36
T PERFORMING GENERAL PME FUNCTIONS	13
O MECHANICALLY ALIGNING OR ADJUSTING PME	12
R REPAIRING ELECTRO-MECHANICAL-DIMENSIONAL PME	10
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	9

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
L54 CALIBRATE AND CERTIFY PRESSURE GAUGES	100
L46 CALIBRATE AND CERTIFY MICROMETERS	100
L79 CALIBRATE AND CERTIFY VACUUM GAUGES	100
O3 ALIGN OR ADJUST BALANCES OR SCALES	92
T8 LOCATE PARTS OR STOCK NUMBERS IN SUPPLY CATALOGUES	83

GROUP ID NUMBER AND TITLE: GRP234, VOLTAGE, CURRENT, POWER STANDARDS, AND
EQUIPMENT SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: SAC 40% TAC 20% MAC 20% ATC 20%

DAFSC DISTRIBUTION: 32450 (60%), 32470 (40%)

AVERAGE GRADE: 5.4

EXPRESSED JOB INTEREST: 100 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 80 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 60 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 56

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
E CALIBRATING AND CERTIFYING VOLTAGE, CURRENT POWER STANDARDS AND EQUIPMENT	72
F CALIBRATING AND CERTIFYING IMPEDANCE AND IMPEDANCE MEASURING DEVICES	7
T PERFORMING GENERAL PME FUNCTIONS	5

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
E18 CALIBRATE AND CERTIFY DIGITAL MULTIMETERS	100
E1 CALIBRATE AND CERTIFY ALTERNATING CURRENT (AC) DIRECT CURRENT (DC) RATIO METERS	100
E4 CALIBRATE AND CERTIFY AC INSTRUMENT CALIBRATION STANDARDS	100
E2 CALIBRATE AND CERTIFY AC-DC RECORDING VOLT- AMMETERS	100
E17 CALIBRATE AND CERTIFY DIFFERENTIAL VOLTMETERS	100

GROUP ID NUMBER AND TITLE: GRP171, WAVEFORM EQUIPMENT CALIBRATION AND
ELECTRONIC ALIGNMENT/REPAIR SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: AFSC 29% MAC 29% ATC 14% TAC 14%
USAFE 14%

DAFSC DISTRIBUTION: 32430 (14%), 32450 (72%), 32470 (14%)

AVERAGE GRADE: 4.2

EXPRESSED JOB INTEREST: 57 PERCENT FOUND JOB SO-SO

PERCEIVED UTILIZATION OF TALENTS: 100 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 30

TIME SPENT ON DUTIES:

DUTY

AVERAGE PERCENT TIME
SPENT BY ALL MEMBERS

H	CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	29
N	ELECTRONICALLY ALIGNING OR ADJUSTING PME	24
Q	REPAIRING ELECTRONIC PME	21
T	PERFORMING GENERAL PME FUNCTIONS	15

FIVE REPRESENTATIVE TASKS:

TASK

PERCENT MEMBERS
PERFORMING

H6	CALIBRATE AND CERTIFY GENERAL PURPOSE OSCILLOSCOPES	100
N46	ALIGN OR ADJUST TIMING CIRCUITS	100
H4	CALIBRATE AND CERTIFY DUAL TRACE PLUG-IN UNITS	100
Q38	REMOVE OR INSTALL SOLID STATE COMPONENTS	71
NT1	ALIGN OR ADJUST CATHODE RAY TUBE (CRT) CIRCUITS	71

GROUP ID NUMBER AND TITLE: GRP131, WAVEFORM ANALYZING EQUIPMENT SPECIALIST

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: SAC 50% MAC 33% ATC 17%

DAFSC DISTRIBUTION: 32430 (17%), 32450 (83%)

AVERAGE GRADE: 4.2

EXPRESSED JOB INTEREST: 67 PERCENT FOUND JOB FAIRLY INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 100 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 20

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
H CALIBRATING AND CERTIFYING WAVEFORM ANALYZING EQUIPMENT	51
T PERFORMING GENERAL PME FUNCTIONS	29
S MAINTAINING PLANT EQUIPMENT	6

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
H6 CALIBRATE AND CERTIFY GENERAL PURPOSE OSCILLOSCOPES	100
H10 CALIBRATE AND CERTIFY OSCILLOSCOPE PROBES	100
H7 CALIBRATE AND CERTIFY HIGH GAIN PLUG-IN UNITS	100
T2 CLEAN OR VISUALLY INSPECT PME	83
H8 CALIBRATE AND CERTIFY LABORATORY GRADE OSCILLOSCOPES	83

GROUP ID NUMBER AND TITLE: GRP167, PMEL CHIEF/SUPERINTENDENT

PERCENT OF SAMPLE: 11.0

MAJOR COMMAND DISTRIBUTION: TAC 20% SAC 18% USAFE 15% ATC 14%
MAC 14% ADC 4% AFSC 4% USAFSS 4%
OTHER 7%

DAFSC DISTRIBUTION: 32470 (43%), 32490 (57%)

AVERAGE GRADE: 7.3

EXPRESSED JOB INTEREST: 92 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 95 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 87 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 93

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
B DIRECTING AND IMPLEMENTING	41
A ORGANIZING AND PLANNING	24
C EVALUATING AND INSPECTING	19
D TRAINING	11

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
B4 COUNSEL PERSONNEL ON PERSONAL OR MILITARY RELATED PROBLEMS	98
B1 ASSIGN PERSONNEL TO DUTIES	97
B35 PREPARE OR INDORSE AIRMAN PERFORMANCE REPORTS (APR)	97
B12 DRAFT CORRESPONDENCE	93
B49 SUPERVISE PRECISION MEASURING EQUIPMENT TECHNICIANS (AFSC 32470)	90

GROUP ID NUMBER AND TITLE: GRP405, PMEL EVALUATOR/INSPECTOR

PERCENT OF SAMPLE: LESS THAN ONE PERCENT

MAJOR COMMAND DISTRIBUTION: AFLC (AGMC) 88% USAFSS 12%

DAFSC DISTRIBUTION: 32470 (88%), 32490 (12%)

AVERAGE GRADE: 6.4

EXPRESSED JOB INTEREST: 100 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 100 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 100 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 47

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
C EVALUATING AND INSPECTING	40
B DIRECTING AND IMPLEMENTING	33
A ORGANIZING AND PLANNING	15
D TRAINING	6

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
C14 EVALUATE QUALITY ASSURANCE PROCEDURES	100
C5 EVALUATE INSPECTION ROUTINES OR REPORTS	100
B3 CONDUCT INSPECTIONS OR SPOT CHECKS OR MAINTENANCE METHODS	100
A28 PLAN OR IMPLEMENT SUPPORT PROCEDURES FOR TRAVEL TEAMS	100
B40 PREPARE TECHNICAL AND ADMINISTRATIVE REPORTS FOR AEROSPACE GUIDANCE AND METROLOGY CENTER (AGMC)	63

GROUP ID NUMBER AND TITLE: GRP238, QUALITY ASSURANCE INSPECTOR/SUPERVISOR
AND GENERAL PME SPECIALIST

PERCENT OF SAMPLE: 1.6

MAJOR COMMAND DISTRIBUTION: SAC 31% MAC 17% USAFE 17% ADC 9%
TAC 9% AFCS 4% AFSC 4% PACAF 4%
OTHER 5%

DAFSC DISTRIBUTION: 32470 (96%), NO RESPONSE (4%)

AVERAGE GRADE: 6.0

EXPRESSED JOB INTEREST: 96 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 91 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 95 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 53

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
B DIRECTING AND IMPLEMENTING	38
C EVALUATING AND INSPECTING	19
T PERFORMING GENERAL PME FUNCTIONS	12
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	11
A ORGANIZING AND PLANNING	10

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
B28 PREPARE INSPECTION REPORTS	100
A33 PLAN QUALITY ASSURANCE STANDARDS	100
C24 INSPECT OR EVALUATE QUALITY OF COMPLETED WORK	96
C14 EVALUATE QUALITY ASSURANCE PROCEDURES	96
B42 RESOLVE TECHNICAL PROBLEMS ENCOUNTERED BY SUBORDINATES	91

GROUP ID NUMBER AND TITLE: GRP207, QUALITY ASSURANCE INSPECTOR/SUPERVISOR

PERCENT OF SAMPLE: 1.4

MAJOR COMMAND DISTRIBUTION: SAC 30% TAC 15% USAFE 15% AFSC 10%
PACAF 10% MAC 5% ADC 5% ATC 5%
USAFSS 5%

DAFSC DISTRIBUTION: 32450 (5%), 32470 (90%), 32490 (5%)

AVERAGE GRADE: 6.2

EXPRESSED JOB INTEREST: 85 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 90 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 90 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 21

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
B DIRECTING AND IMPLEMENTING	51
C EVALUATING AND INSPECTING	23
T PERFORMING GENERAL PME FUNCTIONS	15
A ORGANIZING AND PLANNING	5

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
B17 IMPLEMENT OR DIRECT QUALITY ASSURANCE PROCEDURES	100
C24 INSPECT OR EVALUATE QUALITY OF COMPLETED WORK	90
B3 CONDUCT INSPECTIONS OR SPOT CHECKS OR MAINTENANCE METHODS	90
B38 PREPARE SUMMARIES OF QUALITY ASSURANCE INSPECTIONS	90
B28 PREPARE INSPECTION REPORTS	85

GROUP ID NUMBER AND TITLE: GRP106, INSTRUCTOR/METROLOGY SPECIALIST

PERCENT OF SAMPLE: 3.4

MAJOR COMMAND DISTRIBUTION: ATC 98% AFSC 2%

DAFSC DISTRIBUTION: 32450 (58%), 32870 (42%)

AVERAGE GRADE: 5.0

EXPRESSED JOB INTEREST: 96 PERCENT FOUND JOB FAIRLY TO EXTREMELY INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 92 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 97 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 27

TIME SPENT ON DUTIES:

<u>DUTY</u>	<u>AVERAGE PERCENT TIME SPENT BY ALL MEMBERS</u>
D TRAINING	47
P PERFORMING METROLOGY COMPUTATIONS OR ANALYSES	27
B DIRECTING AND IMPLEMENTING	11

FIVE REPRESENTATIVE TASKS:

<u>TASK</u>	<u>PERCENT MEMBERS PERFORMING</u>
D15 PERFORM AS CLASSROOM INSTRUCTOR	96
D23 PREPARE TRAINING MATERIALS	88
D20 PREPARE, ADMINISTER, OR SCORE TESTS	88
P29 READ OR INTERPRET SCHEMATICS, DIAGRAMS OR CHARTS	73
P1 CALCULATE CURRENT VOLTAGE, POWER, IMPEDANCE, PARAMETERS, ADMITTANCE, SUCCEPTANCE, OR REACTANCES	71

GROUP ID NUMBER AND TITLE: GRP155, CLASSROOM INSTRUCTOR

PERCENT OF SAMPLE: 1.9

MAJOR COMMAND DISTRIBUTION: ATC 100%

DAFSC DISTRIBUTION: 32450 (50%), 32470 (50%)

AVERAGE GRADE: 5.0

EXPRESSED JOB INTEREST: 92 PERCENT FOUND JOB FAIRLY TO EXTREMELY
INTERESTING

PERCEIVED UTILIZATION OF TALENTS: 88 PERCENT FAIRLY WELL TO PERFECTLY

PERCEIVED UTILIZATION OF TRAINING: 88 PERCENT FAIRLY WELL TO PERFECTLY

AVERAGE NUMBER OF TASKS PERFORMED: 7

TIME SPENT ON DUTIES:

DUTY

AVERAGE PERCENT TIME
SPENT BY ALL MEMBERS

D TRAINING
B DIRECTING AND IMPLEMENTING

83
9

FIVE REPRESENTATIVE TASKS:

TASK

PERCENT MEMBERS
PERFORMING

D15 PERFORM AS CLASSROOM INSTRUCTOR
D20 PREPARE, ADMINISTER, OR SCORE TESTS
D6 DEMONSTRATE OPERATION OF EQUIPMENT
D22 PREPARE OR EVALUATE LESSON PLANS
D23 PREPARE TRAINING MATERIALS

100
77
73
58
58